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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/964,367	09/26/2001	Jarmo Heinonen	874.0101.U1(US)	2260		
7	590 02/16/2006		EXAM	INER		
	ON & SMITH LLP		RAMAKRISHN	RAMAKRISHNAIAH, MELUR		
FAIRFIELD,			ART UNIT	PAPER NUMBER		
•			2643	·		
			DATE MAILED: 02/16/200	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)	·		
	09/964,367 HEINONEN ET AL.						
	Office Action Summary	Examiner		Art Unit			
			akrishnaiah	2643			
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A SHO WHIC - Exten after S - If NO - Failur Any n	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAIL sions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statute e to reply within the set or extended period for reply will epply received by the Office later than three months after d patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TH 37 CFR 1.136(a). In no eve cation. ory period will apply and will by statute, cause the appl	IIS COMMUNICATION Int, however, may a reply be tire I expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this o ED (35 U.S.C. § 133).			
Status							
2a)☐ 3)☐	Responsive to communication(s) filed of this action is FINAL . 2b) Since this application is in condition for closed in accordance with the practice)⊠ This action is n r allowance except	on-final. for formal matters, pr		e merits is		
Dispositi	on of Claims						
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati 9)□ 10)□	Claim(s) 1-21 is/are pending in the apparate Aa) Of the above claim(s) is/are Claim(s) 15-21 is/are allowed. Claim(s) 1-6 and 8-13 is/are rejected. Claim(s) 7 and 14 is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Barbara that any objection. Applicant may not request that any objection. Replacement drawing sheet(s) including the Control of	withdrawn from containing and/or election reaction reaction in accepted or by the correction is required.	equirement. objected to by the be held in abeyance. Seed of the drawing(s) is older.	ee 37 CFR 1.85(a). bjected to. See 37 (
·		y and Examiner.					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449 or PTo-1449) r No(s)/Mail Date 1-9-02/9-12-03.		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date	TO-152)		

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 8-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA (Applicant's Admitted Prior Art) in view of Lee et al. (US 2001/0029172, filed 12-28-2000, hereinafter Lee).

Regarding claim 1, AAPA discloses an oscillator circuit for use in a local oscillator of an RF communication device that communicates over an RF channel comprising: an oscillator circuit coupled to power supply voltage (Vcc) through a buffer transaistor and a biasing network having a bias voltage output coupled of the oscillator transistor and to control input of the buffer transistor, the bias network voltage network being coupled to Vcc (fig. 1 of Applicant's drawing).

AAPA differs from claims 1-3 in that it does not teach the following: circuitry for setting a magnitude of Vcc as a function of at least RF channel conditions or an operational mode of the RF communication device, RF channel conditions are determined by calculating a signal-to-noise ratio, magnitude of Vcc is set between about zero volts and some maximum value.

However, Lee discloses low noise amplifier for mobile communication terminal which teaches the following: circuitry (330, fig. 1) for setting a magnitude of Vcc (reads on bias circuit varying bias current) as a function of at least RF channel conditions or an

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operational mode of the RF communication device, RF channel conditions are determined by calculating a signal-to-noise ratio, magnitude of Vcc is set between about zero volts and some maximum value (fig. 1, paragraphs: 0013, 0024, 0026-0027).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify AAPA to provide for the following: circuitry for setting a magnitude of Vcc as a function of at least RF channel conditions or an operational mode of the RF communication device, RF channel conditions are determined by calculating a signal-to-noise ratio, magnitude of Vcc is set between about zero volts and some maximum value as this arrangement would facilitate to minimize the use of battery in mobile communication device as taught by Lee (paragraph: 0034), thus facilitating to increase battery life in mobile communication device.

AAPA differs from claims 4-6 in that it does not teach the following: operational mode is one of a TDMA mode or CDMA mode, operational mode is one of burst transmission mode and reception mode or substantially continuous transmission mode and reception mode, operational mode is one of a narrow bandwidth mode or wider bandwidth mode.

However, Lee teaches the following: operational mode is one of a TDMA mode or CDMA mode, operational mode is one of burst transmission mode and reception mode or substantially continuous transmission mode and reception mode, operational mode is one of a narrow bandwidth mode or wider bandwidth mode (paragraphs: 0021-0023).

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Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify AAPA to provide for the following: operational mode is one of a TDMA mode or CDMA mode, operational mode is one of burst transmission mode and reception mode or substantially continuous transmission mode and reception mode, operational mode is one of a narrow bandwidth mode or wider bandwidth mode as this arrangement would facilitate to provide mobile communications to the user as is well known in the art.

Claims 8-10 are rejected for the same reasons as set forth in the rejection of claims 1-3.

Claims 11-13 are rejected for the same reasons as set forth in the rejection of claims 4-6.

- 3. Claims 7 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 15-21 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (571)272-8098. The examiner can normally be reached on 9 Hr schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curt Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melur Ramakrishnaiah

Primary Examiner

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INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449)

Docket No.: 874.0101.U1(US)

Serial No.: 09/964,367

#5

Applicant(s): HEINONEN et al

(Substitute) Filing Date: 9/26/2001

Group: 2817

	(Substitute)		Filing Date: 9/20/2001	Group: 2	.01/		
			U.S. PATENTS			·	
Initials	Patent Number	Issue Date	Name	Class	Sub- class	Filing date	
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WO-00/03490 01-20-2000 Hitachi, Ltd.							
OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)							
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Examiner's Signature: Melux Romako Date Considered: 2-9-07. Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered. Include a copy of this citation form with your next correspondence to the Applicant(s).							

Notice of References Cited Application/Control No. 09/964,367 Examiner Melur Ramakrishnaiah Applicant(s)/Patent Under Reexamination HEINONEN ET AL. Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-2001/0029172	10-2001	Lee et al.	455/234.1
	В	US-			
	С	US-			
	D	US-			
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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYYY format are publication dates. Classifications may be US or foreign.





